

Array Instruments Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global array instruments market size reached US\$ 1.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1.4 Billion by 2028, exhibiting a growth rate (CAGR) of 3.2% during 2023-2028.

An array instrument is used in laboratories for quantitatively and simultaneously monitoring the expression of multiple genes. It contains numerous small representative tissue samples from hundreds of different cases, which are assembled on a single histologic slide. The high-throughput approach of the array instrument aids in locating chromosomal expressions and mutations in a genotype, as well as measuring and detecting gene expressions at the messenger RNA (mRNA) or protein level. As a result, it finds applications in molecular and cell biology, genetics, molecular pathology, and for synthesizing and sequencing nucleic acids.

The increasing prevalence of chronic diseases, in confluence with the emerging need for their early detection and diagnosis, represents one of the key factors driving the global array instruments market growth. In addition to this, governments of several countries are investing in the improvement of healthcare facilities, which in turn, is positively influencing the demand for array instruments, especially in emerging economies. Furthermore, these instruments can be incorporated with a wide range of technologies, owing to which they find applications in different areas of research, such as life sciences and drug discovery. For instance, deoxyribonucleic acid (DNA) microarrays are used for examining changes in gene expression by fluorescent labeling of complementary DNA, whereas tissue microarrays aid in identifying new diagnostic

and prognostic markers and targeting cancer in human beings. Other than this, the introduction of advanced technologies, such as microarray-based comparative genomic hybridization (array CGH), is expected to bolster the market growth in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global array instruments market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on application, technology and end-user.

Breakup by Application:

- Molecular Biology
- Cell Biology
- Genetics
- Molecular Pathology
- Others

Breakup by Technology:

- DNA Microarrays
- Protein Microarrays
- Cellular Microarrays
- Tissue Microarrays

Breakup by End-User:

- Research and Development Laboratories
- Clinical Diagnostic Labs
- Agriculture Research Centers
- Veterinary Laboratories
- Forensic Centers
- Others

Breakup by Region:

- North America
- United States

Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Affymetrix Inc., Agilent Technologies Inc., Arrayit Corporation, Bio-RAD Laboratories, Inc. Illumina Inc., Laboratory Corporation, Molecular Devices LLC, Raybiotech Inc., Sigma Aldrich Corporation, Thermo Fisher Scientific Inc., etc.

Key Questions Answered in This Report:

How has the global array instruments market performed so far and how will it perform in the coming years?

What are the key regional markets?

What has been the impact of COVID-19 on the global array instruments market?

What is the breakup of the market based on the application?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the end-user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global array instruments market and who are the key players?

What is the degree of competition in the industry?

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